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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/521,307	01/13/2005	Noel Alfred Warner	_	5036	
7590 04/24/2006		EXAMINER			
Professor N A Warner			KASTLER, SCOTT R		
40 High House Drive Rednal			ART UNIT	PAPER NUMBER	
,	B45 8ET		1742		
UNITED KING	DOM		DATE MAILED: 04/24/2006	DATE MAILED: 04/24/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/521,307	WARNER, NOEL ALFRED				
Office Action Summary	Examiner	Art Unit				
	Scott Kastler	1742				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
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closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-8</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>1-3</u> is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) <u>4-8</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.	•				
Application Papers						
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on 13 January 2005 is/are:	a)⊠ accepted or b)☐ objected	to by the Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correcti						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
 Certified copies of the priority documents 	1. Certified copies of the priority documents have been received.					
Certified copies of the priority documents	s have been received in Application	on No				
Copies of the certified copies of the prior	•	ed in this National Stage				
application from the International Bureau	1 11	·				
* See the attached detailed Office action for a list of	of the certified copies not receive	d.				
Attachment(s)	Λ □ •	(DTO 442)				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		atent Application (PTO-152)				

Means-Plus-Function Language

The instant claims contain the following means-plus-function language:

1. "means for transferring molten metal" (claim 1), which is defined in the specification

at pages 8 and 9 for example, as gas lift pumps and siphon devices.

2. "means for controllably supplying heat to, and removing heat from metal in the

furnaces" (claim 1), which is defined in the specification as described in the paragraph bridging

pages 9 and 10 of the specification for example.

Claim Objections

Claims 5-8 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim cannot depend from any other multiple dependent claim. See MPEP § 608.01(n). Accordingly, the claims have not been further treated on the merits.

Claim 4 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. The above claim does not fairly further limit independent claim 1 because the means-plus-function language of instant claim 1, as explained above, already requires that the means for controllably heating include electrical heating means.

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Allowable Subject Matter

Claims 1-3 are allowed at least because none of the cited prior art shows or fairly suggests the multiple furnace pair plant where the furnaces must include interior walls of solid iron or steel (the apparatus must be operable to manufacture steel so the furnace walls must be of this composition) with electrical heating means and boiler tube heat removal means as described by independent claim 1, where such an arrangement provides for both efficient steelmaking as well as effective use of the excess heat generated as described at pages 2-6 of the specification, for example.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Each of Warner, Frank, Hunt and Hunt et al are also cited as further e3xamples of prior art process plants.

This application is in condition for allowance except for the following formal matters:

The claim objections recited above.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott Kastler whose telephone number is (571) 272-1243. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Scott Kastler Primary Examiner Art Unit 1742

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